

## **Claims**

1. A power supply circuit for selectively supplying a first and a second direct current (DC) signal inputted to an electrical device, the power supply circuit comprising:  
an input terminal for inputting an alternating current (AC) signal;  
an output terminal for selectively outputting the first and second DC signal;  
a first switch having a first end and a second end, the first end being connected to the input terminal;  
an AC/DC converter having an input terminal, connected to the second end of the first switch, and an output terminal, connected to the output terminal of the power supply circuit;  
a second switch having a first end, connected to the output terminal of the power supply circuit, and a second end;  
a battery connected to the second end of the second switch; and  
a control circuit for controlling the first switch and the second switch;  
wherein when the electrical device is in a normal mode, the control circuit turns on the first switch and turns off the second switch so that the AC/DC converter converts from the AC signal to the first DC signal, and when the electrical device is in a particular mode, the control circuit turns off the first switch and turns on the second switch so that the battery supplies the second DC signal to the output terminal of the power supply circuit.
2. The power supply circuit of claim 1, wherein the particular mode is a power saving mode.
3. An electrical apparatus comprising a power supply circuit, the power supply circuit comprising:  
an input terminal for inputting an AC signal;

an output terminal for selectively outputting a first and a second DC signal;  
a first switch having a first end, connected to the input terminal, and a second end;  
an AC/DC converter having an input terminal, connected to the second end of the first switch, and an output terminal, connected to the output terminal of the power supply circuit;  
a second switch;  
a battery connected to the second switch; and  
a control circuit for controlling the first switch and the second switch;  
wherein when the electrical device is in a normal mode, the control circuit turns on the first switch and turns off the second switch so that the AC/DC converter converts from the AC signal to the first DC signal, and when the electrical device is in a particular mode, the control circuit turns off the first switch and turns on the second switch so that the battery supplies the second DC signal to the output terminal of the power supply circuit.

4. The electrical apparatus of claim 3, wherein the particular mode is a power saving mode.
5. The electrical apparatus of claim 3, wherein the electrical apparatus is a monitor.
6. The electrical apparatus of claim 3, wherein the electrical apparatus is a projector.